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Cy3										Cy5																													
1.	LD1686	2.	LD1686	3.	GJ1759	4.	GJ1759	5.	CP28	6.	CP28	7.	DH98	8.	DH98	9.	Cy3 control	10.	Cy5 control	11.	Male B (MB)	12.	MB	13.	MB	14.	MB	15.	MB	16.	Female J (FJ)	17.	FJ	18.	FJ	19.	FJ	20.	FJ

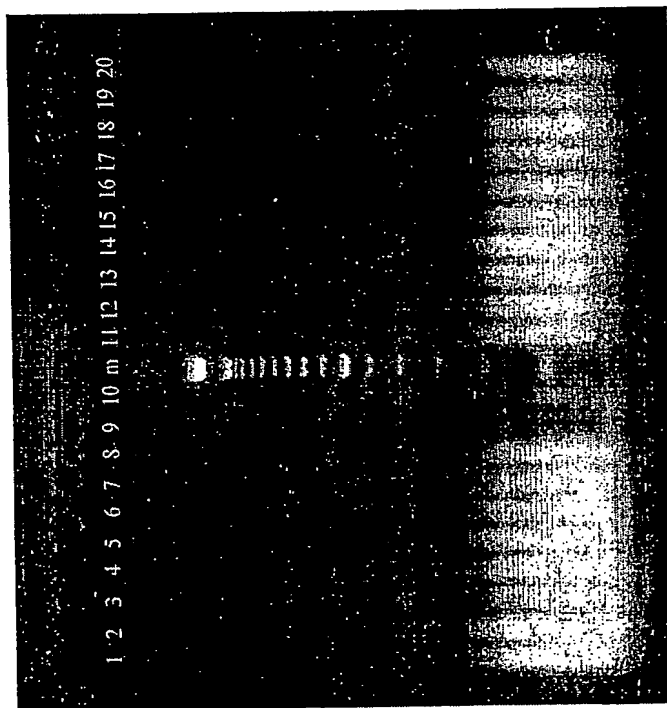


Figure 1

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SAMPLE # 8 (MA 1557 / FEMALE REFERENCE) – CONFIRMED MALE

MA1557/Female reference (46, XX) – confirmed male

Document: #8/J-v65.qps					
Chip Name: GeneSator™ Array 300 (rev. 1)					
Analyzed by: VV81					
Chip #1					
Tgt Name	Cyto Location	*	[Mass Ratio] Mean CV(%)	Mean Corr-C	Nonfodal (nh p(x))
140 INS	11p tel	3	1.30	1	0.99 ++
276 STS 2'	Xp22.3	3	0.91	1	1.00
277 STS 3'	Xp22.3	3	0.99	1	0.99 --
278 KAL	Xp22.3	3	0.97	1	0.99 --
279 D19 exon 45-51	Xp21.1	3	0.89	1	1.00
280 DXS500	Xp11.2	3	0.70	1	0.99 --
281 DXS7132	Xq12	3	0.88	1	1.00
282 RA 3'	Xq11-q12	3	0.65	1	0.99 --
283 X10T	Xq10.2	3	0.90	2	1.00
284 OCRL1	Xq25	3	0.97	1	0.99 --
286 SRV	Yp11.3	3	1.45	2	1.00 ++
287 AZFa region	Yq11	3	1.21	0	0.99 ++
Total spots		858			
Mean CV, Corr-C			1.4	0.99	
Ratio normalizer			0.75		
Fodal mean, SD			1.005	0.074	

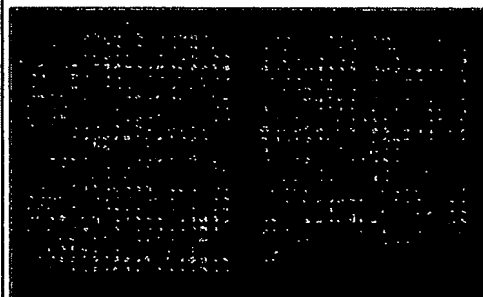


Figure 2

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			Male 1 vs Female ref.	Male 2 vs Female ref.	Male 3 vs Female ref.	Male 4 vs Female ref.	Male 5 vs Female ref.
SAMPLE			SV98-AF	PP76-AF	JDC818-AF	TD47-AF	JH768-AF
Name	Cytok		T/R P<0.005	T/R P<0.005	T/R P<0.005	T/R P<0.005	T/R P<0.005
D21S378	21q11.2		0.97 0	0.94 0	1.02 0	0.98 0	0.93 0
RUNX1(AML1)	21q22.3		0.91 0	0.93 0	0.88 0	0.96 0	0.89 0
DYRK1A	21q22		0.95 0	0.93 0	0.89 0	0.85 0	1.04 0
D21S341,D21S342	21q22.3		0.93 0	0.97 0	0.95 0	1.00 0	0.92 0
PCNT2(KEN)	21q tel		1.11 0	1.15 0	1.14 0	1.10 0	1.04 0
21QTEL08	21q tel		0.98 0	0.99 0	1.01 0	0.98 0	1.01 0
DXYS129	X/Yp tel		0.97 0	1.00 0	0.98 0	1.02 0	0.97 0
STS 3'	Xp22.3				0		0.95 0
STS 5'	Xp22.3						0.81 0
KAL	Xp22.3				0		0.86 0
DMD exon 45-51	Xp21.1				1.03 0		0.86 0
DXS580	Xp11.2						0.95 0
DXS7132	Xq12		0.87 0	0.94 0	0.80 0	0.85 0	0.84 0
AR 3'	Xq11-q12				0		
XIST	Xq13.2		0.85 0			0.80	0.87 0
OCRL1	Xq25						1.00 0
EST CDY16c07	X/Yq tel		0.94 0	0.99 0	0.95 0	1.01 0	0.97 0
SRY	Yp11.3						1.04 0
AZFa region	Yq11						1.02 0

			Male 6 vs Female ref.	Male 7 vs Female ref.	Male 8 vs Female ref.	Male 9 vs Female ref.	Male 10 vs Female ref.
SAMPLE			SD48-AF	RH80-AF	MA1557-AF	LD1686-AF	GU1769-AF
Name	Cytok		T/R P<0.005	T/R P<0.005	T/R P<0.005	T/R P<0.001	T/R P<0.001
D21S378	21q11.2		0.95 0	0.98 0	0.95 0	0.84 0	0.94 0
RUNX1(AML1)	21q22.3		0.95 0	0.90 0	1.03 0	0.95 0	0.91 0
DYRK1A	21q22		0.98 0	0.98 0	0.99 0	0.90 0	0.88 0
D21S341,D21S342	21q22.3		0.94 0	1.03 0	1.04 0	0.94 0	1.02 0
PCNT2(KEN)	21q tel		1.08 0	1.04 0	1.02 0	1.09 0	1.11 0
21QTEL08	21q tel		1.02 0	1.02 0	1.07 0	0.99 0	0.89 0
DXYS129	X/Yp tel		0.98 0	0.97 0	0.97 0	1.07 0	1.10 0
STS 3'	Xp22.3			0.87 0			
STS 5'	Xp22.3						
KAL	Xp22.3						
DMD exon 45-51	Xp21.1			0			
DXS580	Xp11.2		0.80	0.84 0			
DXS7132	Xq12		0.83	0.92 0			
AR 3'	Xq11-q12						
XIST	Xq13.2			0.85 0			
OCRL1	Xq25						
EST CDY16c07	X/Yq tel		0.98 0	0.94 0	1.03 0	0.9113 0	1.02 0
SRY	Yp11.3						
AZFa region	Yq11				0		

			T 21 Male 11 vs Female ref.	Female 1 vs Female ref.	Female 2 vs Male ref.	Female 3 vs Male ref.	Female 4 vs Male ref.
SAMPLE			O21636-AF	MR77-AF	OP28-AF	DH98-AF	PR861-AF
Name	Cytok		T/R P<0.005	T/R P<0.005	T/R P<0.001	T/R P<0.001	T/R P<0.005
D21S378	21q11.2		1.03 0	0.96 0	0.87 0	1.01 0	0.98 0
RUNX1(AML1)	21q22.3			0.98 0	0.89 0	0.92 0	0.96 0
DYRK1A	21q22		0.05	0.91 0	0.92 0	0.88 0	1.06 0
D21S341,D21S342	21q22.3		0.05	1.03 0	0.94 0	0.99 0	0.92 0
PCNT2(KEN)	21q tel		0.01	1.04 0	1.02 0	1.03 0	1.03 0
21QTEL08	21q tel		0.05	1.01 0	1.05 0	0.92 0	1.03 0
DXYS129	X/Yp tel		0.89 0	1.00 0	1.01 0	1.01 0	0.94 0
STS 3'	Xp22.3		0.84 0	0.98 0			
STS 5'	Xp22.3			0.99 0			
KAL	Xp22.3			0.95 0			
DMD exon 45-51	Xp21.1			0.94 0			
DXS580	Xp11.2			0.99 0	1.12 0		1.14 0
DXS7132	Xq12			1.03 0	1.05 0	1.17 0	1.20 0
AR 3'	Xq11-q12			0.94 0			
XIST	Xq13.2		0.85 0	0.96 0			
OCRL1	Xq25			1.05 0			
EST CDY16c07	X/Yq tel		0.98 0	0.97 0	0.98 0	0.92 0	1.02 0
SRY	Yp11.3		0.95 0	1.15 0			
AZFa region	Yq11		1.19 0	1.09 0			

Figure 3

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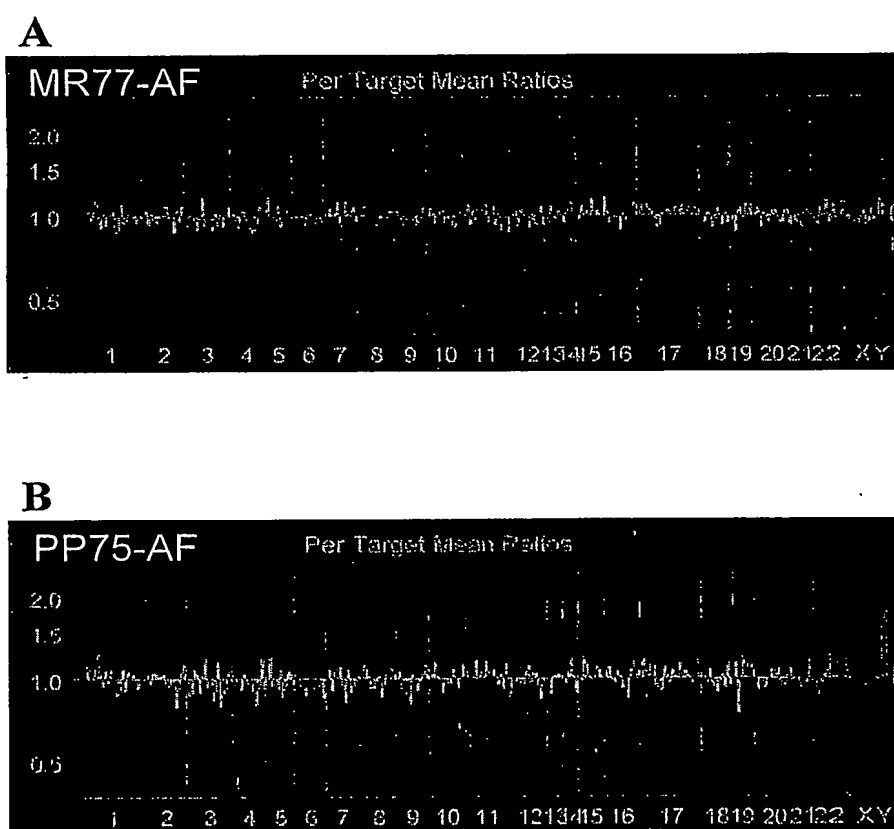


Figure 4

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Cytogenetic Location	Locus Name	Male 1 AF/ 46, XX Reference		Male 2 AF/ 46, XX Reference		Male 3 AF/ 46, XX Reference	
		T/R	P Value	T/R	P Value	T/R	P Value
21q11.2	D21S378	0.95	0.5	0.98	0.4	0.98	0.5
21q22.3	RUNX1(AML1)	1.03	0.5	0.90	0.1	0.89	0.1
21q22	DYRK1A	0.99	0.5	0.98	0.5	0.93	0.2
21q22.3	D21S341,D21S342	1.04	0.5	1.03	0.5	0.92	0.1
21q tel	PCNT2(KEN)	1.02	0.5	1.04	0.4	1.12	0.1
21q tel	21QTEL08	1.07	0.5	1.02	0.5	1.02	0.5
Xp22.3	STS 3'	0.81	0.005	0.87	0.03	0.73	<0.001
Xp22.3	STS 5'	0.68	0.001	0.67	<0.001	0.65	<0.001
Xp22.3	KAL	0.67	0.001	0.71	<0.001	0.71	<0.001
Xp21.1	DMD exon 45-51	0.69	0.001	0.80	0.009	0.67	<0.001
Xp11.2	DXS580	0.78	0.002	0.84	0.1	0.85	0.1
Xq12	DXS7132	0.80	0.005	0.92	0.1	0.88	0.1
Xq11-q12	AR 3'	0.68	0.001	0.65	<0.001	0.73	<0.001
Xq13.2	XIST	0.81	0.005	0.85	0.1	0.79	0.002
Xq25	OCRL1	0.67	0.001	0.77	0.001	0.59	<0.001
Yp11.3	SRY	1.45	0.001	1.36	<0.001	1.15	0.1
Yq11	AZFa region	1.21	0.01	1.45	<0.001	1.17	0.1

Cytogenetic Location	Locus Name	Tris. 21 Female 2 AF/ 46, XX Reference		Tris. 21 Male 3 AF/ 46, XX Reference		Tris. 21 Male 4 AF/ 46, XX Reference	
		T/R	P Value	T/R	P Value	T/R	P Value
21q11.2	D21S378	1.05	0.2	1.10	0.1	1.09	0.5
21q22.3	RUNX1(AML1)	1.21	0.008	1.15	0.1	1.24	0.5
21q22	DYRK1A	1.21	0.01	1.26	0.002	1.25	0.05
21q22.3	D21S341,D21S342	1.23	0.003	1.15	0.04	1.27	0.05
21q tel	PCNT2(KEN)	1.35	<0.001	1.42	<0.001	1.38	0.01
21q tel	21QTEL08	1.33	<0.001	1.22	0.005	1.27	0.05
Xp22.3	STS 3'	1.08	0.3	0.82	0.008	0.64	0.5
Xp22.3	STS 5'	0.93	0.2	0.68	<0.001	0.70	0.005
Xp22.3	KAL	0.97	0.5	0.70	<0.001	0.69	0.02
Xp21.1	DMD exon 45-51	0.95	0.4	0.75	<0.001	0.58	0.001
Xp11.2	DXS580	1.00	0.5	0.86	0.1	0.80	0.5
Xq12	DXS7132	0.95	0.3	0.89	0.1	0.72	0.01
Xq11-q12	AR 3'	0.82	0.008	0.53	<0.001	0.55	0.001
Xq13.2	XIST	0.96	0.3	0.81	0.009	0.85	0.5
Xq25	OCRL1	1.14	0.1	0.74	<0.001	0.74	0.005
Yp11.3	SRY	1.16	0.1	1.50	<0.001	1.55	0.001
Yq11	AZFa region	1.11	0.1	1.56	<0.001	1.49	0.5

Figure 5

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Cytogenetic Location	Locus Name	Male 5:AFI		Male 5:AFI		Male 6:AFI		Male 6:AFI	
		46, XY Reference	P-Value	46, XX Reference	P-Value	46, XY Reference	P-Value	46, XX Reference	P-Value
21q11.2	D21S378	0.94	0.5	0.89	0.5	0.83	0.5	0.82	0.1
21q22.3	RUNX1(AML1)	0.93	0.5	0.92	0.5	0.93	0.5	0.96	0.5
21q22	DYRK1A	0.99	0.5	1.00	0.5	1.00	0.5	1.01	0.5
21q22.3	D21S341,D21S342	0.96	0.5	0.95	0.5	0.91	0.5	0.94	0.5
21q1el	PCNT2(KEN)	1.09	0.5	1.09	0.5	1.10	0.5	1.09	0.5
21q1el	21QTEL08	1.06	0.5	1.13	0.5	1.15	0.5	1.14	0.5
Xp22.3	STS-3'	0.99	0.5	0.59	0.001	0.97	0.5	0.58	0.001
Xp22.3	STS-5'	0.89	0.5	0.66	0.001	0.95	0.5	0.58	0.001
Xp22.3	KAL	1.02	0.5	0.71	0.001	1.01	0.5	0.67	0.001
Xp21.1	DMD:exon 45-51	1.01	0.5	0.59	0.001	0.83	0.5	0.50	0.001
Xp11.2	DXS580	0.96	0.5	0.79	0.002	0.83	0.5	0.67	0.001
Xq12	DXS7132	0.94	0.5	0.62	0.005	0.78	0.02	0.57	0.001
Xq11-q12	AR-3'	1.02	0.5	0.64	0.001	0.93	0.5	0.65	0.001
Xq13.2	XIST	0.95	0.5	0.74	0.001	0.90	0.5	0.69	0.001
Xq26	OCRL1	1.02	0.5	0.62	0.001	0.98	0.5	0.69	0.001
Yp11.3	SRY	0.96	0.5	2.03	0.001	0.86	0.5	2.13	0.001
Yq11	AZF <sub>a</sub> region	1.04	0.5	1.29	0.01	0.94	0.5	1.20	0.5

Cytogenetic Location	Locus Name	Female 3:AFI		Female 3:AFI		Female 4:AFI		Female 4:AFI	
		46, XY Reference	P-Value	46, XX Reference	P-Value	46, XY Reference	P-Value	46, XX Reference	P-Value
21q11.2	D21S378	0.85	0.5	0.92	0.5	0.88	0.5	0.94	0.5
21q22.3	RUNX1(AML1)	0.80	0.5	0.91	0.5	0.93	0.5	0.93	0.5
21q22	DYRK1A	1.06	0.5	0.88	0.5	1.01	0.5	0.96	0.5
21q22.3	D21S341,D21S342	0.92	0.5	0.94	0.5	0.86	0.5	0.81	0.5
21q1el	PCNT2(KEN)	1.07	0.5	1.12	0.5	1.03	0.5	1.08	0.5
21q1el	21QTEL08	1.08	0.5	1.00	0.5	0.91	0.5	1.01	0.5
Xp22.3	STS-3'	1.70	0.001	0.84	0.5	1.49	0.001	0.92	0.5
Xp22.3	STS-5'	1.42	0.001	0.96	0.5	1.34	0.001	0.99	0.5
Xp22.3	KAL	1.46	0.001	0.80	0.5	1.36	0.001	0.98	0.5
Xp21.1	DMD:exon 45-51	1.37	0.002	0.86	0.5	1.44	0.001	0.83	0.5
Xp11.2	DXS580	1.09	0.5	0.93	0.5	1.07	0.5	0.93	0.5
Xq12	DXS7132	0.84	0.5	0.89	0.5	1.07	0.5	0.92	0.5
Xq11-q12	AR-3'	1.52	0.001	0.94	0.5	1.37	0.001	0.98	0.5
Xq13.2	XIST	1.20	0.5	0.92	0.5	1.12	0.5	0.94	0.5
Xq26	OCRL1	1.79	0.001	0.92	0.5	1.60	0.001	0.99	0.5
Yp11.3	SRY	0.86	0.001	1.08	0.5	0.66	0.001	1.12	0.5
Yq11	AZF <sub>a</sub> region	0.86	0.001	1.09	0.5	0.77	0.008	0.98	0.5

Figure 6

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Cytogenetic Location	Locus Name	Male 7 AF/ 48, XX Reference		Male 7 Cells/ 48, XX Reference		Male 8 AF/ 48, XX Reference		Male 8 Cells/ 48, XX Reference		Male 9 AF/ 48, XX Reference		Male 9 Cells/ 48, XX Reference	
		T/R	P Value	T/R	P Value	T/R	P Value	T/R	P Value	T/R	P Value	T/R	P Value
21q11.2	D21S378	0.97	0.4	1.05	0.2	0.94	0.2	1.01	0.9	0.98	0.5	1.03	0.4
21q22.3	RUNX1(AML1)	0.91	0.2	0.94	0.1	0.93	0.2	0.99	0.5	0.98	0.2	0.90	0.1
21q22	DYRK1A	0.85	0.3	0.97	0.2	0.93	0.2	1.04	0.2	0.85	0.4	0.91	0.2
21q22.3	D21S341,D21S342	0.83	0.2	0.89	0.5	0.97	0.4	1.00	0.5	1.00	0.5	0.91	0.1
21q tel	PCNT2(KEN)	1.11	0.1	0.88	0.4	1.15	0.1	1.08	0.1	1.10	0.2	1.11	0.1
21q tel	21QTEL08	0.98	0.5	1.02	0.4	0.99	0.4	1.01	0.5	0.98	0.3	1.02	0.4
Xp22.3	STS 3'	0.97	0.003	0.93	<0.001	0.92	<0.001	0.93	<0.001	0.93	<0.001	0.93	<0.001
Xp22.3	STS 5'	0.97	<0.001	0.93	<0.001	0.92	<0.001	0.93	<0.001	0.93	<0.001	0.93	<0.001
Xp22.3	KAL	0.97	<0.001	0.93	<0.001	0.92	<0.001	0.93	<0.001	0.93	<0.001	0.93	<0.001
Xp21.1	DMD exon 45-51	0.97	0.001	0.93	<0.001	0.92	<0.001	0.93	<0.001	0.93	<0.001	0.93	<0.001
Xp11.2	DXS580	0.97	0.001	0.93	<0.001	0.92	<0.001	0.93	<0.001	0.93	<0.001	0.93	<0.001
Xq12	DXS7132	0.97	0.2	0.94	0.002	0.94	0.5	0.98	0.91	0.95	0.02	0.91	0.2
Xq11-q12	AR 3'	0.98	<0.001	0.93	<0.001	0.92	<0.001	0.93	<0.001	0.93	<0.001	0.93	<0.001
Xq13.2	XIST	0.95	0.04	0.93	<0.001	0.92	<0.001	0.93	<0.001	0.93	0.003	0.93	<0.001
Xq25	OCRL1	0.97	<0.001	0.93	<0.001	0.92	<0.001	0.93	<0.001	0.93	0.001	0.93	<0.001
Yp11.3	SRY	1.48	<0.001	1.59	<0.001	1.65	<0.001	1.73	<0.001	1.35	0.004	1.59	<0.001
Yq11	AZF <sub>a</sub> region	1.35	<0.001	1.67	<0.001	1.78	<0.001	1.93	<0.001	1.43	<0.001	1.61	<0.001

Cytogenetic Location	Locus Name	Male 10 AF/ 48, XX Reference		Male 10 Cells/ 48, XX Reference		Male 11 AF/ 48, XX Reference		Male 11 Cells/ 48, XX Reference	
		T/R	P Value	T/R	P Value	T/R	P Value	T/R	P Value
21q11.2	D21S378	0.85	0.2	1.02	0.5	1.02	0.5	0.91	0.3
21q22.3	RUNX1(AML1)	0.85	0.2	1.02	0.3	0.88	0.2	1.05	0.4
21q22	DYRK1A	0.88	0.3	1.08	0.1	0.89	0.3	1.09	0.3
21q22.3	D21S341,D21S342	0.84	0.2	0.99	0.5	0.95	0.5	0.98	0.6
21q tel	PCNT2(KEN)	1.08	0.1	0.88	0.2	1.14	0.1	1.12	0.1
21q tel	21QTEL08	1.02	0.5	1.03	0.4	1.01	0.5	1.08	0.4
Xp22.3	STS 3'	0.97	<0.001	0.93	<0.001	0.92	0.01	0.93	<0.001
Xp22.3	STS 5'	0.97	<0.001	0.93	<0.001	0.92	<0.001	0.93	<0.001
Xp22.3	KAL	0.97	<0.001	0.93	<0.001	0.92	<0.001	0.93	<0.001
Xp21.1	DMD exon 45-51	0.97	<0.001	0.93	<0.001	1.03	0.50	0.93	<0.001
Xp11.2	DXS580	0.80	<0.001	0.75	<0.001	0.75	0.004	0.75	<0.001
Xq12	DXS7132	0.83	0.003	0.78	<0.001	0.80	0.10	0.78	<0.001
Xq11-q12	AR 3'	0.95	<0.001	0.93	<0.001	0.92	<0.001	0.93	<0.001
Xq13.2	XIST	0.95	<0.001	0.78	<0.001	0.75	0.004	0.75	<0.001
Xq25	OCRL1	0.97	<0.001	0.93	<0.001	0.92	<0.001	0.93	<0.001
Yp11.3	SRY	1.57	<0.001	1.48	<0.001	1.74	<0.001	1.37	<0.001
Yq11	AZF <sub>a</sub> region	1.49	<0.001	1.55	<0.001	1.62	<0.001	1.49	<0.001

Cytogenetic Location	Locus Name	Female 5 AF/ 48, XX Reference		Female 5 Cells/ 48, XX Reference		Female 6 AF/ 48, XX Reference		Female 6 Cells/ 48, XX Reference	
		T/R	P Value	T/R	P Value	T/R	P Value	T/R	P Value
21q11.2	D21S378	1.10	0.2	1.08	0.2	0.98	0.3	1.02	0.4
21q22.3	RUNX1(AML1)	1.09	0.2	0.98	0.4	0.98	0.4	0.98	0.3
21q22	DYRK1A	1.12	0.2	1.05	0.3	0.91	0.1	1.02	0.2
21q22.3	D21S341,D21S342	0.89	0.4	0.99	0.4	1.03	0.5	1.00	0.5
21q tel	PCNT2(KEN)	1.00	0.5	1.03	0.4	1.04	0.3	1.00	0.8
21q tel	21QTEL08	1.12	0.2	1.05	0.2	1.01	0.4	1.01	0.4
Xp22.3	STS 3'	1.08	0.3	1.00	0.4	0.98	0.5	1.04	0.1
Xp22.3	STS 5'	0.94	0.3	0.99	0.1	0.99	0.5	1.01	0.5
Xp22.3	KAL	0.87	0.2	0.99	0.02	0.95	0.4	0.99	0.4
Xp21.1	DMD exon 45-51	1.14	0.1	1.03	0.5	0.94	0.1	1.05	0.2
Xp11.2	DXS580	0.82	0.2	0.80	0.2	0.99	0.4	1.06	0.04
Xq12	DXS7132	1.05	0.3	1.05	0.3	1.03	0.3	0.99	0.4
Xq11-q12	AR 3'	0.94	0.3	0.88	0.1	0.94	0.2	0.88	<0.001
Xq13.2	XIST	0.94	0.3	1.02	0.5	0.96	0.2	1.07	0.1
Xq25	OCRL1	0.89	0.2	0.84	0.1	1.05	0.5	0.88	0.5
Yp11.3	SRY	0.94	0.4	1.02	0.5	1.15	0.01	0.98	0.6
Yq11	AZF <sub>a</sub> region	0.94	0.3	1.01	0.5	1.09	0.1	1.08	0.03

Figure 7

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